

INTERNATIONAL SEARCH REPORT

Inter national Application No
PCT/GB2005/000297

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 H02P5/05 H02P6/14

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 H02P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 292 007 A (TOYOTA JIDOSHA KABUSHIKI KAISHA; DENSO CORPORATION) 12 March 2003 (2003-03-12) paragraphs '0044!, '0047! - '0055!	1-3,7-9, 11-13, 15-20 4-6,10, 14
Y	US 5 796 226 A (OOKAWA ET AL) 18 August 1998 (1998-08-18) abstract	4,5
Y	EP 0 748 038 A (KOLLMORGEN CORPORATION) 11 December 1996 (1996-12-11) page 7, line 29 - line 32 page 8, line 20 - line 24	6,10
Y	GB 970 003 A (UNITED KINGDOM ATOMIC ENERGY AUTHORITY) 16 September 1964 (1964-09-16) page 1, lines 39-52	14
-/--		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Special categories of cited documents :

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

- *T* later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention
- *X* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
- *Y* document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.
- *&* document member of the same patent family

Date of the actual completion of the international search

3 May 2005

Date of mailing of the international search report

17/05/2005

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2 273 212 A (* UNIVERSITY COLLEGE CARDIFF CONSULTANTS LIMITED) 8 June 1994 (1994-06-08) page 4, line 21 - line 27 -----	1-20
A	US 5 677 605 A (CAMBIER ET AL) 14 October 1997 (1997-10-14) column 5, line 26 - line 64 -----	1-20
A	VERGALLE M F K ET AL: "Excitation advance control schemes for switched reluctance motors" PROCEEDINGS OF THE INDUSTRY APPLICATIONS SOCIETY ANNUAL MEETING. HOUSTON, OCT. 4 - 9, 1992, NEW YORK, IEEE, US, vol. VOL. 1, 4 October 1992 (1992-10-04), pages 257-264, XP010063799 ISBN: 0-7803-0635-X abstract -----	1-20

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Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☒ Claims Nos.: 21-24
because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. ☐ Claims Nos.:
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. ☐ As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. ☐ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- ☐ The additional search fees were accompanied by the applicant's protest.
- ☐ No protest accompanied the payment of additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box II.2

Claims Nos.: 21-24

Claims not clear (Article 6 and Rule 6.2(a)).

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. If the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/GB2005/000297

Patent document cited in search report	Publication date	Patent family member(s)	Publication date
EP 1292007 A	12-03-2003	JP 3501370 B2 JP 2003079176 A EP 1292007 A2 US 2003042863 A1	02-03-2004 14-03-2003 12-03-2003 06-03-2003
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US 5677605 A	14-10-1997	AT 268515 T AU 2906595 A CA 2194284 A1 CN 1306338 A ,C CN 1157065 A ,C DE 69533104 D1 DE 69533104 T2 EP 0769220 A1 FI 970003 A JP 10506518 T JP 3431162 B2 NO 970012 A WO 9601521 A1 AU 6180790 A DD 298451 A5 EP 0439586 A1 IE 903015 A1 IL 95438 A JP 4502997 T WO 9103104 A1 US 5107151 A	15-06-2004 25-01-1996 18-01-1996 01-08-2001 13-08-1997 08-07-2004 14-10-2004 23-04-1997 03-03-1997 23-06-1998 28-07-2003 24-02-1997 18-01-1996 03-04-1991 20-02-1992 07-08-1991 10-04-1991 24-06-1994 28-05-1992 07-03-1991 21-04-1992

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